IN THE CLAIMS:

 ${\tt 1.} \qquad \hbox{(Previously presented)} \quad {\tt An \ ester \ F \ of} \\$ formula Ib

$$(PO) m_3 \longrightarrow (EO) n_3 \longrightarrow (EO) n_1 \longrightarrow (PO) m_1 \longrightarrow (PO) m_2 \longrightarrow (PO) m_2$$

or

Ιb

(EO)
$$n_3$$
 (PO) m_3 (EO) m_1 (EO) m_1 (EO) m_2 (EO) m_2

wherein EO is O-CH2-CH2-,

PO is independently at each instance O-CH2-CH(CH3) or O-CH(CH3)-CH2-,

n1 + n2 + n3 is 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, or 60, m1 + m2 + m3 is 4, 5, 6, 7, 8, 9, 10, 11, 12, or 13,

R1, R2, and R3 are independently H or CH3.

2. (Cancelled)

- 3. (Previously presented) The ester F of claim 1 wherein n1, n2, and n3 are independently 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, or 20.
- 4. (Previously presented) The ester F of claim 1 wherein m1, m2, and m3 are independently 1, 2, 3, 4, or 5.
- 5. (Previously presented) The ester F of claim 1 wherein m1 + m2 + m3 is 5 or 10.
- 6. (Previously presented) The ester F of claim 1 wherein n1 + n2 + n3 is 30 or 50.
- 7. (Previously presented) The ester F of claim 1 wherein R1, R2, and R3 are identical.

8. (Currently amended) A process for preparing an ester F of claim 1 from an alkoxylated trimethylolpropane of the formula IIb or IIc

H
 (PO) m_3 (EO) n_3 (PO) m_1 H (PO) m_2 H

IIb

H (EO)
$$n_3$$
 (PO) m_3 (EO) n_1 (EO) n_1 H

IIC

wherein EO, PO, n1, n2, n3, m1, m2, and m3 are each as defined in claim 1, $\frac{1}{2}$

and (meth)acrylic acid, comprising the steps of

- a) reacting the alkoxylated trimethylol-propane IIb or IIc with the (meth)acrylic acid in the presence of at least one esterification catalyst C, at least one polymerization inhibitor D, and optionally a water-azeotroping solvent E to form an the ester F, wherein a molar excess of (meth)acrylic acid to alkoxylated trimethylolpropane is at least 3.15:1,
- b) optionally removing from the reaction mixture some or all of the water formed in a), during and/or after a),

- f) optionally neutralizing the reaction mixture,
- h) when a solvent E is used, optionally removing the solvent E by distillation, and/or
- i) stripping the reaction mixture with a gas which is inert under the reaction conditions.
- 9. (Currently amended) The process of claim 8 wherein

a molar excess of (meth)acrylic acid to alkoxylated trimethylolpropane is at least 3.15:1, and the optionally neutralized (meth)acrylic acid present in the reaction mixture after the last process step substantially remains in the reaction mixture.

10. (Currently amended) A process for preparing an ester F of alkoxylated trimethylolpropane of the formula IIa

IIa

wherein AO is for each AO independently EO, PO, and BO,

EO is O-CH2-CH2-,

PO is independently at each instance O-CH2-CH(CH3)- or O-CH(CH3)-CH2-,

BO is independently at each instance O-CH2-CH(CH2-CH3) - or O-CH(CH2-CH3)-CH2-,

p1 + p2 + p3 is 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, or 75, and (meth)acrylic acid, comprising the steps

of

a) reacting the alkoxylated trimethylol-propane IIa with the (meth)acrylic acid in the presence of at least one esterification catalyst C, at least one polymerization inhibitor D, and optionally a water-azeotroping solvent E to form an the ester F,

- b) optionally removing from the reaction mixture some or all of the water formed in a), during and/or after a),
- f) optionally neutralizing the reaction mixture,
- h) when a solvent E is used, optionally removing the solvent E by distillation, and/or
- i) stripping the reaction mixture with a gas which is inert under the reaction conditions, wherein

a molar excess of (meth)acrylic acid to alkoxylated trimethylolpropane is at least 7.5:1, and the optionally neutralized (meth)acrylic acid present in the reaction mixture after the last process step substantially remains in the reaction mixture.

- 11. (Previously presented) The process of claim 8 wherein the (meth)acrylic acid is not more than 75% by weight removed from the reaction mixture obtained after the process last step, which reaction mixture contains the ester F.
- 12. (Previously presented) The process of claim 8 wherein the reaction mixture obtained after the process last step, which contains the ester F, has a DIN EN 3682 acid number of at least 25 mg of KOH/g.
- 13. (Previously presented) The process of claim 8 wherein the reaction mixture obtained after the process last step, which contains the ester F, has a (meth)acrylic acid content of at least 0.5% by weight.

- 14. (Previously presented) The process of claim 8 wherein the molar ratio of (meth)acrylic acid to alkoxylated trimethylolpropane in step a) is at least 15:1.
- 15. (Currently amended) A process for preparing a crosslinked hydrogel, comprising the steps of
- k) polymerizing an ester F of claim 1 with (meth)acrylic acid, and an optional additional monoethylenically unsaturated compound N and optionally at least one further copolymerizable hydrophilic monomer M, in the presence of at least one free-radical initiator K and optionally of at least one grating grafting base L,
- optionally postcrosslinking the reaction mixture obtained from k),
- m) drying the reaction mixture obtained
 from k) or l), and
- n) optionally grinding and/or sieving the reaction mixture obtained from k), l), or m).

- 16. (Currently amended) The process for preparing a crosslinked hydrogel, comprising steps a) to i) of claim 8 and additionally
- k) polymerizing the reaction mixture from one of steps a) to i) if performed, with an optional additional monoethylenically unsaturated compound N and optionally at least one further copolymerizable hydrophilic monomer M in the presence of at least one free-radical initiator K and optionally of at least one grafting base L,
- $\label{eq:local_post_crosslinking} 1) \quad \text{optionally postcrosslinking the reaction} \\ \\ \text{mixture obtained from } k)\,,$
- m) drying the reaction mixture obtained from k) or 1), and
- (n) optionally grinding and/or sieving the reaction mixture obtained from k), 1), or m).
- 17. (Previously presented) A crosslinked hydrogel prepared according to the process of claim 15.
- 18. (Previously presented) A crosslinked hydrogel containing at least one hydrophilic monomer M in polymerized form crosslinked with an ester F of claim 1.
- 19. (Previously presented) A crosslinked hydrogel containing at least one hydrophilic monomer M in polymerized form crosslinked with a reaction mixture which contains an ester F and is prepared according to the process of claim 8.

20. (Cancelled)

21. (Previously presented) A composition comprising

from 0.1% to 40% by weight of at least one ester F of claim 1 and (meth)acrylic acid,

0.5-99.9% by weight of at least one hydrophilic monomer M,

0-10% by weight of at least one esterification catalyst C,

0-5% by weight of at least one polymerization inhibitor D, and

0-10% by weight of a solvent E,

with the proviso that the sum total is always 100% by weight.

- 23. (Previously presented) A crosslinked hydrogel prepared from a composition of claim 21 and additionally optionally postcrosslinked.

24. (Cancelled)

25. (Previously presented) A crosslinked hydrogel of claim 18 having a residual crosslinker content of less than 10 ppm.

26. (Cancelled)

- 27. (Previously presented) The ester F of claim 1 wherein R1, R2, and R3 are H.
- 28. (Previously presented) The process of claim 10 wherein the (meth)acrylic acid is not more than 75% by weight removed from the reaction mixture obtained after the process last step, which reaction mixture contains the ester F.
- 29. (Previously presented) The process of claim 10 wherein the reaction mixture obtained after the last process step, which contains the ester F, has a DIN EN 3682 acid number of at least 25 mg of KOH/q.
- 30. (Previously presented) The process of claim 10 wherein the reaction mixture obtained after the last process step, which contains the ester F, has a (meth)acrylic acid content of at least 0.5% by weight.
- 31. (Previously presented) The process of claim 10 wherein the molar ratio of (meth)acrylic acid to alkoxylated trimethylolpropane in step a) is at least 15:1.
- 32. (Previously presented) An article comprising a crosslinked hydrogel of claim 18.
- 33. (Previously presented) The article of claim 32 selected from the group consisting of a hygiene article, a packaging material, and a nonwoven.

- 34. (Previously presented) The crosslinked hydrogel of claim 25 having a residual crosslinked content of less than 5 ppm.
- 35. (Currently amended) A process for preparing a crosslinked hydrogel, comprising the steps of
- k) polymerizing an ester F of claim 10 with (meth)acrylic acid and an optional additional monoethylenically unsaturated compound N and optionally at least one further copolymerizable hydrophilic monomer M, in the presence of at least one free-radical initiator K and optionally of at least one grating grafting base L,
- $\label{eq:local_post_crosslinking} \mbox{ 1) optionally postcrosslinking the reaction} \\ \mbox{mixture obtained from } \mbox{k)} \, ,$
- m) drying the reaction mixture obtained from k) or l), and
- n) optionally grinding and/or sieving the reaction mixture obtained from k), 1), or m).